

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/582,622
Source: 1FwP
Date Processed by STIC: 6/21/06

ENTERED



IFWP

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/582,622

DATE: 06/21/2006
TIME: 11:29:19

Input Set : A:\PTO.KD.txt
Output Set: N:\CRF4\06212006\J582622.raw

5 <110> APPLICANT: Obermeier, Axel
 6 Bieger, Boris
 10 <120> TITLE OF INVENTION: Methods of identifying, selecting and/or characterizing
 compounds which
 11 modulate the activity of a Src family kinase
 15 <130> FILE REFERENCE: 2993-1-001PCT/US
 C--> 19 <140> CURRENT APPLICATION NUMBER: US/10/582,622
 C--> 21 <141> CURRENT FILING DATE: 2006-06-12
 25 <150> PRIOR APPLICATION NUMBER: EP 03028713.0
 27 <151> PRIOR FILING DATE: 2003-12-12
 31 <160> NUMBER OF SEQ ID NOS: 51
 35 <170> SOFTWARE: PatentIn version 3.1
 39 <210> SEQ ID NO: 1
 41 <211> LENGTH: 536
 43 <212> TYPE: PRT
 45 <213> ORGANISM: Homo sapiens
 49 <220> FEATURE:
 51 <221> NAME/KEY: MISC_FEATURE
 53 <223> OTHER INFORMATION: Description of sequence: wt Src
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 63 Ser Leu Glu Pro Ala Glu Asn Val His Gly Ala Gly Gly Ala Phe
 64 20 25 30
 67 Pro Ala Ser Gln Thr Pro Ser Lys Pro Ala Ser Ala Asp Gly His Arg
 68 35 40 45
 71 Gly Pro Ser Ala Ala Phe Ala Pro Ala Ala Glu Pro Lys Leu Phe
 72 50 55 60
 75 Gly Gly Phe Asn Ser Ser Asp Thr Val Thr Ser Pro Gln Arg Ala Gly
 76 65 70 75 80
 79 Pro Leu Ala Gly Gly Val Thr Thr Phe Val Ala Leu Tyr Asp Tyr Glu
 80 85 90 95
 84 Ser Arg Thr Glu Thr Asp Leu Ser Phe Lys Lys Gly Glu Arg Leu Gln
 85 100 105 110
 88 Ile Val Asn Asn Thr Glu Gly Asp Trp Trp Leu Ala His Ser Leu Ser
 89 115 120 125
 92 Thr Gly Gln Thr Gly Tyr Ile Pro Ser Asn Tyr Val Ala Pro Ser Asp
 93 130 135 140
 96 Ser Ile Gln Ala Glu Glu Trp Tyr Phe Gly Lys Ile Thr Arg Arg Glu
 97 145 150 155 160
 100 Ser Glu Arg Leu Leu Asn Ala Glu Asn Pro Arg Gly Thr Phe Leu
 101 165 170 175
 104 Val Arg Glu Ser Glu Thr Thr Lys Gly Ala Tyr Cys Leu Ser Val Ser
 105 180 185 190

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108 Asp Phe Asp Asn Ala Lys Gly Leu Asn Val Lys His Tyr Lys Ile Arg
109 195 200 205
112 Lys Leu Asp Ser Gly Gly Phe Tyr Ile Thr Ser Arg Thr Gln Phe Asn
113 210 215 220
116 Ser Leu Gln Gln Leu Val Ala Tyr Tyr Ser Lys His Ala Asp Gly Leu
117 225 230 235 240
120 Cys His Arg Leu Thr Thr Val Cys Pro Thr Ser Lys Pro Gln Thr Gln
121 245 250 255
124 Gly Leu Ala Lys Asp Ala Trp Glu Ile Pro Arg Glu Ser Leu Arg Leu
125 260 265 270
128 Glu Val Lys Leu Gly Gln Gly Cys Phe Gly Glu Val Trp Met Gly Thr
129 275 280 285
132 Trp Asn Gly Thr Thr Arg Val Ala Ile Lys Thr Leu Lys Pro Gly Thr
133 290 295 300
136 Met Ser Pro Glu Ala Phe Leu Gln Glu Ala Gln Val Met Lys Lys Leu
137 305 310 315 320
140 Arg His Glu Lys Leu Val Gln Leu Tyr Ala Val Val Ser Glu Glu Pro
141 325 330 335
144 Ile Tyr Ile Val Thr Glu Tyr Met Ser Lys Gly Ser Leu Leu Asp Phe
145 340 345 350
148 Leu Lys Gly Glu Thr Gly Lys Tyr Leu Arg Leu Pro Gln Leu Val Asp
149 355 360 365
152 Met Ala Ala Gln Ile Ala Ser Gly Met Ala Tyr Val Glu Arg Met Asn
153 370 375 380
156 Tyr Val His Arg Asp Leu Arg Ala Ala Asn Ile Leu Val Gly Glu Asn
157 385 390 395 400
160 Leu Val Cys Lys Val Ala Asp Phe Gly Leu Ala Arg Leu Ile Glu Asp
161 405 410 415
164 Asn Glu Tyr Thr Ala Arg Gln Gly Ala Lys Phe Pro Ile Lys Trp Thr
165 420 425 430
168 Ala Pro Glu Ala Ala Leu Tyr Gly Arg Phe Thr Ile Lys Ser Asp Val
169 435 440 445
172 Trp Ser Phe Gly Ile Leu Leu Thr Glu Leu Thr Thr Lys Gly Arg Val
173 450 455 460
176 Pro Tyr Pro Gly Met Val Asn Arg Glu Val Leu Asp Gln Val Glu Arg
177 465 470 475 480
180 Gly Tyr Arg Met Pro Cys Pro Pro Glu Cys Pro Glu Ser Leu His Asp
181 485 490 495
184 Leu Met Cys Gln Cys Trp Arg Lys Glu Pro Glu Glu Arg Pro Thr Phe
185 500 505 510
188 Glu Tyr Leu Gln Ala Phe Leu Glu Asp Tyr Phe Thr Ser Thr Glu Pro
189 515 520 525
192 Gln Tyr Gln Pro Gly Glu Asn Leu
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196 <210> SEQ ID NO: 2
198 <211> LENGTH: 536
200 <212> TYPE: PRT
202 <213> ORGANISM: Homo sapiens
206 <220> FEATURE:

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Input Set : A:\PTO.KD.txt
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226 35 40 45
229 Gly Pro Ser Ala Ala Phe Ala Pro Ala Ala Glu Pro Lys Leu Phe
230 50 55 60
233 Gly Gly Phe Asn Ser Ser Asp Thr Val Thr Ser Pro Gln Arg Ala Gly
234 65 70 75 80
237 Pro Leu Ala Gly Gly Val Thr Thr Phe Val Ala Leu Tyr Asp Tyr Glu
238 85 90 95
241 Ser Arg Thr Glu Thr Asp Leu Ser Phe Lys Lys Gly Glu Arg Leu Gln
242 100 105 110
245 Ile Val Asn Asn Thr Glu Gly Asp Trp Trp Leu Ala His Ser Leu Ser
246 115 120 125
249 Thr Gly Gln Thr Gly Tyr Ile Pro Ser Asn Tyr Val Ala Pro Ser Asp
250 130 135 140
253 Ser Ile Gln Ala Glu Glu Trp Tyr Phe Gly Lys Ile Thr Arg Arg Glu
254 145 150 155 160
257 Ser Glu Arg Leu Leu Leu Asn Ala Glu Asn Pro Arg Gly Thr Phe Leu
258 165 170 175
261 Val Arg Glu Ser Glu Thr Thr Lys Gly Ala Tyr Cys Leu Ser Val Ser
262 180 185 190
265 Asp Phe Asp Asn Ala Lys Gly Leu Asn Val Lys His Tyr Lys Ile Arg
266 195 200 205
269 Lys Leu Asp Ser Gly Gly Phe Tyr Ile Thr Ser Arg Thr Gln Phe Asn
270 210 215 220
273 Ser Leu Gln Gln Leu Val Ala Tyr Tyr Ser Lys His Ala Asp Gly Leu
274 225 230 235 240
277 Cys His Arg Leu Thr Thr Val Cys Pro Thr Ser Lys Pro Gln Thr Gln
278 245 250 255
281 Gly Leu Ala Lys Asp Ala Trp Glu Ile Pro Arg Glu Ser Leu Arg Leu
282 260 265 270
285 Glu Val Lys Leu Gly Gln Gly Cys Phe Gly Glu Val Trp Met Gly Thr
286 275 280 285
289 Trp Asn Gly Thr Thr Arg Val Ala Ile Ala Thr Leu Lys Pro Gly Thr
290 290 295 300
293 Met Ser Pro Glu Ala Phe Leu Gln Glu Ala Gln Val Met Lys Lys Leu
294 305 310 315 320
297 Arg His Glu Lys Leu Val Gln Leu Tyr Ala Val Val Ser Glu Glu Pro
298 325 330 335
301 Ile Tyr Ile Val Thr Glu Tyr Met Ser Lys Gly Ser Leu Leu Asp Phe
302 340 345 350
305 Leu Lys Gly Glu Thr Gly Lys Tyr Leu Arg Leu Pro Gln Leu Val Asp
306 355 360 365

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Input Set : A:\PTO.KD.txt
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309 Met Ala Ala Gln Ile Ala Ser Gly Met Ala Tyr Val Glu Arg Met Asn
310 370 375 380
313 Tyr Val His Arg Asp Leu Arg Ala Ala Asn Ile Leu Val Gly Glu Asn
314 385 390 395 400
317 Leu Val Cys Lys Val Ala Asp Phe Gly Leu Ala Arg Leu Ile Glu Asp
318 405 410 415
321 Asn Glu Tyr Thr Ala Arg Gln Gly Ala Lys Phe Pro Ile Lys Trp Thr
322 420 425 430
325 Ala Pro Glu Ala Ala Leu Tyr Gly Arg Phe Thr Ile Lys Ser Asp Val
326 435 440 445
329 Trp Ser Phe Gly Ile Leu Leu Thr Glu Leu Thr Thr Lys Gly Arg Val
330 450 455 460
333 Pro Tyr Pro Gly Met Val Asn Arg Glu Val Leu Asp Gln Val Glu Arg
334 465 470 475 480
337 Gly Tyr Arg Met Pro Cys Pro Pro Glu Cys Pro Glu Ser Leu His Asp
338 485 490 495
341 Leu Met Cys Gln Cys Trp Arg Lys Glu Pro Glu Glu Arg Pro Thr Phe
342 500 505 510
345 Glu Tyr Leu Gln Ala Phe Leu Glu Asp Tyr Phe Thr Ser Thr Glu Pro
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353 <210> SEQ ID NO: 3
355 <211> LENGTH: 536
357 <212> TYPE: PRT
359 <213> ORGANISM: Homo sapiens
363 <220> FEATURE:
365 <221> NAME/KEY: misc_feature
367 <223> OTHER INFORMATION: Description of sequence: Src-TQ
371 <400> SEQUENCE: 3
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377 Ser Leu Glu Pro Ala Glu Asn Val His Gly Ala Gly Gly Ala Phe
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381 Pro Ala Ser Gln Thr Pro Ser Lys Pro Ala Ser Ala Asp Gly His Arg
382 35 40 45
385 Gly Pro Ser Ala Ala Phe Ala Pro Ala Ala Glu Pro Lys Leu Phe
386 50 55 60
389 Gly Gly Phe Asn Ser Ser Asp Thr Val Thr Ser Pro Gln Arg Ala Gly
391 65 70 75 80
394 Pro Leu Ala Gly Gly Val Thr Thr Phe Val Ala Leu Tyr Asp Tyr Glu
395 85 90 95
398 Ser Arg Thr Glu Thr Asp Leu Ser Phe Lys Lys Gly Glu Arg Leu Gln
399 100 105 110
402 Ile Val Asn Asn Thr Glu Gly Asp Trp Trp Leu Ala His Ser Leu Ser
403 115 120 125
406 Thr Gly Gln Thr Gly Tyr Ile Pro Ser Asn Tyr Val Ala Pro Ser Asp
407 130 135 140
410 Ser Ile Gln Ala Glu Glu Trp Tyr Phe Gly Lys Ile Thr Arg Arg Glu

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 411 | 145 | 150 | 155 | 160 | | | | | | | | | | | | |
| 414 | Ser | Glu | Arg | Leu | Leu | Leu | Asn | Ala | Glu | Asn | Pro | Arg | Gly | Thr | Phe | Leu |
| 415 | | | | 165 | | | | | 170 | | | | | | | 175 |
| 418 | Val | Arg | Glu | Ser | Glu | Thr | Thr | Lys | Gly | Ala | Tyr | Cys | Leu | Ser | Val | Ser |
| 419 | | | | | 180 | | | 185 | | | | | | | | 190 |
| 422 | Asp | Phe | Asp | Asn | Ala | Lys | Gly | Leu | Asn | Val | Lys | His | Tyr | Lys | Ile | Arg |
| 423 | | | | | 195 | | | 200 | | | | | | | | 205 |
| 426 | Lys | Leu | Asp | Ser | Gly | Gly | Phe | Tyr | Ile | Thr | Ser | Arg | Thr | Gln | Phe | Asn |
| 427 | | | | | 210 | | | 215 | | | | | | | | 220 |
| 430 | Ser | Leu | Gln | Gln | Leu | Val | Ala | Tyr | Tyr | Ser | Lys | His | Ala | Asp | Gly | Leu |
| 431 | | | | | 225 | | | 230 | | | 235 | | | | | 240 |
| 434 | Cys | His | Arg | Leu | Thr | Thr | Val | Cys | Pro | Thr | Ser | Lys | Pro | Gln | Thr | Gln |
| 435 | | | | | | 245 | | | | 250 | | | | | | 255 |
| 438 | Gly | Leu | Ala | Lys | Asp | Ala | Trp | Glu | Ile | Pro | Arg | Glu | Ser | Leu | Arg | Leu |
| 439 | | | | | | 260 | | | 265 | | | | | | | 270 |
| 442 | Glu | Val | Lys | Leu | Gly | Gln | Gly | Cys | Phe | Gly | Glu | Val | Trp | Met | Gly | Thr |
| 443 | | | | | | 275 | | | 280 | | | | | | | 285 |
| 446 | Trp | Asn | Gly | Thr | Thr | Arg | Val | Ala | Ile | Lys | Thr | Leu | Lys | Pro | Gly | Thr |
| 447 | | | | | | 290 | | | 295 | | | | 300 | | | |
| 450 | Met | Ser | Pro | Glu | Ala | Phe | Leu | Gln | Glu | Ala | Gln | Val | Met | Lys | Lys | Leu |
| 451 | | | | | | 305 | | | 310 | | | 315 | | | | 320 |
| 454 | Arg | His | Glu | Lys | Leu | Val | Gln | Leu | Tyr | Ala | Val | Val | Ser | Glu | Glu | Pro |
| 455 | | | | | | | 325 | | | 330 | | | | | | 335 |
| 458 | Ile | Tyr | Ile | Val | Gln | Glu | Tyr | Met | Ser | Lys | Gly | Ser | Leu | Leu | Asp | Phe |
| 459 | | | | | | | 340 | | | 345 | | | | | | 350 |
| 462 | Leu | Lys | Gly | Glu | Thr | Gly | Lys | Tyr | Leu | Arg | Leu | Pro | Gln | Leu | Val | Asp |
| 463 | | | | | | | 355 | | | 360 | | | | | | 365 |
| 466 | Met | Ala | Ala | Gln | Ile | Ala | Ser | Gly | Met | Ala | Tyr | Val | Glu | Arg | Met | Asn |
| 467 | | | | | | | 370 | | | 375 | | | | | | 380 |
| 470 | Tyr | Val | His | Arg | Asp | Leu | Arg | Ala | Ala | Asn | Ile | Leu | Val | Gly | Glu | Asn |
| 471 | | | | | | | 385 | | | 390 | | | | | | 400 |
| 474 | Leu | Val | Cys | Lys | Val | Ala | Asp | Phe | Gly | Leu | Ala | Arg | Leu | Ile | Glu | Asp |
| 475 | | | | | | | | 405 | | | 410 | | | | | 415 |
| 478 | Asn | Glu | Tyr | Thr | Ala | Arg | Gln | Gly | Ala | Lys | Phe | Pro | Ile | Lys | Trp | Thr |
| 479 | | | | | | | | 420 | | | 425 | | | | | 430 |
| 482 | Ala | Pro | Glu | Ala | Ala | Leu | Tyr | Gly | Arg | Phe | Thr | Ile | Lys | Ser | Asp | Val |
| 483 | | | | | | | | 435 | | | 440 | | | | | 445 |
| 486 | Trp | Ser | Phe | Gly | Ile | Leu | Leu | Thr | Glu | Leu | Thr | Thr | Lys | Gly | Arg | Val |
| 487 | | | | | | | | 450 | | | 455 | | | | | 460 |
| 490 | Pro | Tyr | Pro | Gly | Met | Val | Asn | Arg | Glu | Val | Leu | Asp | Gln | Val | Glu | Arg |
| 491 | | | | | | | 465 | | | 470 | | | 475 | | | 480 |
| 494 | Gly | Tyr | Arg | Met | Pro | Cys | Pro | Pro | Glu | Cys | Pro | Glu | Ser | Leu | His | Asp |
| 495 | | | | | | | | 485 | | | 490 | | | | | 495 |
| 498 | Leu | Met | Cys | Gln | Cys | Trp | Arg | Lys | Glu | Pro | Glu | Glu | Arg | Pro | Thr | Phe |
| 499 | | | | | | | | 500 | | | 505 | | | | | 510 |
| 502 | Glu | Tyr | Leu | Gln | Ala | Phe | Leu | Glu | Asp | Tyr | Phe | Thr | Ser | Thr | Glu | Pro |
| 503 | | | | | | | | 515 | | | 520 | | | | | 525 |
| 506 | Gln | Tyr | Gln | Pro | Gly | Glu | Asn | Leu | | | | | | | | |
| 507 | | | | | | | 530 | | | 535 | | | | | | |

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/582,622

DATE: 06/21/2006
TIME: 11:29:20

Input Set : A:\PTO.KD.txt
Output Set: N:\CRF4\06212006\J582622.raw

L:19 M:270 C: Current Application Number differs, Replaced Current Application Number
L:21 M:271 C: Current Filing Date differs, Replaced Current Filing Date